Division of Solid & Hazardous Waste
P.O. Box 414
Trenton, New Jersey 08625-0414
Phone# 609-292-9880
Fax# 609-633-9839

Hazardous Waste Facility Permit

Under the provisions of N.J.S.A. 13:1E-1 et seq. known as the Solid Waste Management Act, this permit is hereby issued to:

E.I. du Pont de Nemours and Company, Inc.
Chambers Works
Deepwater NJ 08023

For the Purpose of Operating a:	Storage and Treatment Facilities
On Block No.:	185
Lot No.:	1
In the Municipality of:	Carneys Point Township
and	
On Block No.:	1
Lot No.:	1
In the Municipality of:	Pennsville Township
County:	Salem
Under Facility Permit No.:	1708C1HP04
EPA ID No.:	NJD 002 385 730

This permit is subject to compliance with all conditions specified herein and all regulations promulgated by the Department of Environmental Protection.

This permit shall not prejudice any claim the State may have to riparian land, nor does it allow the permittee to fill or alter or allow to be filled or altered in any way, lands that are deemed to be riparian, wetlands, stream encroachment areas or flood plains, or that are within the Coastal Area Facility Review Act (CAFRA) zone or are subject to the Pinelands Protection Act of 1979, nor shall it allow the discharge of pollutants to waters of this State without prior acquisition of the necessary grants, permits, or approvals from the Department of Environmental Protection or the U.S. Environmental Protection Agency.

June 17, 1998
Issuance Date

July 17, 1998
Effective Date

March 1, 2000
Modification Date

February 28, 2001
Modification Date

July 17, 2008
Expiration Date

Signed by Thomas Sherman, Assistant Director
Thomas Sherman, Assistant Director
Division of Solid & Hazardous Waste

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Scope of Permit

The hazardous waste rules at N.J.A.C. 7:26G were adopted by the New Jersey Department of Environmental Protection on October 21, 1996. By this adoption, the Department "incorporated by reference" (with limited exception) the July 1, 1993 version of the Federal hazardous waste regulations found at Parts 124, 260-266, 268 and 270, Title 40 of the Code of Federal Regulations (C.F.R.). Those provisions of the Federal regulations which were not incorporated by reference are listed in the State regulatory adoption. Additional changes to the New Jersey hazardous waste rules will be necessary to address Federal regulations adopted subsequent to July 1, 1993. The Department will adopt amendments to N.J.A.C. 7:26G to incorporate by reference those changes to the Federal regulations that have been made since July 1, 1993, and a prospective incorporation by reference which will incorporate all future amendments and supplements to the Federal regulations automatically. Within 180 days of the effective date of these amendments to N.J.A.C. 7:26G, the Department will initiate a modification of this permit to incorporate such provisions as are made necessary by the newly adopted rules.

The conditions of this permit are based on the New Jersey hazardous waste regulations at N.J.A.C. 7:26G and on the permit application submitted by the permittee. In order to eliminate confusion, and to clearly describe the precise obligations which are imposed upon the permittee, only the specific Federal regulatory citations as of July 1, 1993 are listed in the conditions of this permit. For the applicable State regulatory citations, refer to N.J.A.C. 7:26G.

This permit, along with the referenced permit application documents herein specified, shall constitute the sole Hazardous Waste Facility Permit for the operation of hazardous waste storage and treatment facilities at DuPont Chambers Works in Deepwater, Salem County, New Jersey. Any registration, approval, or permit previously issued by the Division of Solid & Hazardous Waste or its predecessor agencies to authorize hazardous waste storage and treatment operations at the subject facility is hereby superseded. The permittee need not comply with the conditions of this permit to the extent and for the duration such non-compliance is authorized by an emergency permit (40 C.F.R. ؋ 270.61).

Section I of this permit contains the general conditions applicable to all hazardous waste facilities. Section II of this permit contains general conditions applicable to DuPont Chambers Works. Section III of this permit contains specific conditions applicable to the hazardous waste management practices at DuPont Chambers Works.

Description of Hazardous Waste Activities

This permit authorizes DuPont Chambers Works to operate a Chemical Waste Container Storage Area, a Telomer "A" Catalyst Residue and Filter Bag Treatment Facility, a Chemical Waste Storage and Treatment Tank Facility, and a RCRA Containment Building.

The Chemical Waste Container Storage Area consists of three storage areas (A,B,and C), having concrete bases and berms, which are authorized to store up to a maximum capacity of 664,500 gallons of hazardous and non-hazardous waste in containers (9,900 fifty-five gallon drums plus tote tanks and trailers). The facility is authorized to store and treat waste (from both on-site and off-site sources) prior to shipment to authorized on-site or off-site facilities.

The Telomer "A" Catalyst Residue and Filter Bag Treatment Facility is authorized to accept for treatment Telomer "A" catalyst residue and filter bags generated by the DuPont Washington Works facility located in Parkersburg, West Virginia, and on-site generated filter bags/cake residue and filter cloths from Telomer B, BL and BN production. The waste is treated in a 840 gallon, brick lined, steel tank with calcium hydroxide or soda caustic in order to react the acidic components of the waste to form neutral salts. The solid material is collected and shipped to an authorized facility, and the liquid material is sent to the on-site wastewater treatment plant.

The Chemical Waste Storage and Treatment Tank Facility consists of four (4) tanks having a total capacity of 39,500 gallons. The facility is authorized to store and treat waste (from both on-site and off-site sources) prior to shipment to authorized on-site or off-site facilities.

The RCRA Containment Building consists of an existing building at DuPont Chambers Works (1178 Bldg.) which has been upgraded to meet the design and operating standards of a containment building in conformance with 40 C.F.R. ؋ 264.1101. The building is authorized for decontamination of containers and debris, pretreatment of wastestreams destined for the on-site WWTP, and storage, treatment, and transfer of containerized wastes (from both on-site and off-site sources) prior to shipment to authorized on-site or off-site facilities.

Summary of Permit Compliance Conditions

The permittee shall conduct initial and periodic assessments of all storage tanks and ancillary equipment in accordance with Condition 4(b)2 of Section III of this permit, until such time as all tank system secondary containment units meet the requirements of 40 C.F.R. ؋ 264.193.

The permittee shall submit plans, specifications, and engineering designs, as applicable, and quarterly progress reports for the upgrade of tank secondary containment units to meet the requirements of 40 C.F.R. ؋ 264.193, in accordance with Condition 6 of Section III of this permit.

The permittee shall submit additional permit application information in accordance with Condition 7 of Section III of this permit to conform to the regulatory requirements of 40 C.F.R. ؋؋ 260 through 270.

Summary of Permit Modification Actions

On March 1, 2000, a Class 1 Permit Modification was issued which served to amend the permittee's waste analysis plan to detail waste acceptance procedures for authorized fuel blending activities, add a revised closure plan document prepared pursuant to permit compliance conditions, and update the authorized wastes for the Telomer A Facility due to a clerical error made at the time of issuance of the permit document.

On February 28, 2001, a Class 1 Permit Modification was issued which served to amend the permittee's waste analysis plan to allow for the increased frequency of analytical sampling for incoming waste shipments.

Section I

General Conditions Applicable to All Permits (40 C.F.R. § 270.30)

1. Duty to Comply

The permittee must comply with all conditions of this permit, except that the permittee need not comply with the conditions of this permit to the extent and for the duration such noncompliance is authorized in an emergency permit. (See 40 C.F.R. § 270.61). Any permit noncompliance, except under the terms of an emergency permit, constitutes a violation of the appropriate Act and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application.

2. Duty to Reapply

(a) If the permittee wishes to continue an activity regulated by this permit after the expiration date of this permit, the permittee must apply for and obtain a new permit.

(b) A complete application for a new permit shall be submitted at least one hundred eighty (180) days prior to the expiration date of this permit.

3. Need to Halt or Reduce Activity Not a Defense

It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

4. Need to Mitigate

In the event of noncompliance with the permit, the permittee shall take all reasonable steps to minimize releases to the environment, and shall carry out such measures as are reasonable to prevent significant adverse impacts on human health or the environment.

5. Proper Operation and Maintenance

The permittee shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the permittee to achieve compliance with the conditions of this permit. Proper operation and maintenance includes effective performance, adequate funding, adequate operator staffing and training, and adequate laboratory and process controls, including appropriate quality assurance procedures. This provision requires the operation of back-up or auxiliary facilities or similar systems only when necessary to achieve

compliance with the conditions of the permit.

6. Permit Actions

This permit may be modified, revoked and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance, does not stay any permit condition.

7. Property Rights

The permit does not convey any property rights of any sort, or any exclusive privilege.

8. Duty to Provide Information

The permittee shall furnish to the Department, within a reasonable time, any relevant information which the Department may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit. The permittee shall also furnish to the Department, upon request, copies of records required to be kept by this permit.

9. Inspection and Entry

The permittee shall allow an authorized representative of the Department upon the presentation of credentials and other documents as may be required by law to:

(a) Enter at reasonable times upon the permittee's premises where a regulated facility or activity is located or conducted, or where records must be kept under the conditions of this permit;

(b) Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;

(c) Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this permit; and

(d) Sample or monitor at reasonable times, for the purposes of assuring permit compliance or as otherwise authorized by RCRA, any substances or parameters at any location.

10. Monitoring and Records

(a) Samples and measurements taken for the purpose of monitoring shall be representative of the monitored activity.

(b) The permittee shall retain records of all monitoring information, including all calibration and maintenance records and all original strip chart recordings for

continuous monitoring instrumentation, copies of all reports required by this permit, the certification required by 40 C.F.R. ؋ 264.73(b)(9) of this chapter, and records of all data used to complete the application for this permit, for a period of at least 3 years from the date of the sample, measurement, report, certification, or application. This period may be extended by request of the Department at any time. The permittee shall maintain records from all ground-water monitoring wells and associated ground-water surface elevations, for the active life of the facility, and for disposal facilities for the post-closure care period as well.

(c) Records for monitoring information shall include:

(1) The date, exact place, and time of sampling or measurements;

(2) The individual(s) who performed the sampling or measurements;

(3) The date(s) analyses were performed;

(4) The individual(s) who performed the analyses;

(5) The analytical techniques or methods used; and

(6) The results of such analyses.

11. Signatory Requirements

All applications, reports, or information submitted to the Department shall be signed and certified. (see 40 C.F.R. ؋ 270.11).

12. Reporting Requirements

(a) Planned Changes

The permittee shall give notice to the Department as soon as possible of any planned physical alterations or additions to the permitted facility.

(b) Anticipated Noncompliance

(1) The permittee shall give advance notice to the Department of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements. For a new facility, the permittee may not treat, store, or dispose of hazardous waste; and for a facility being modified, the permittee may not treat, store, or dispose of hazardous waste in the modified portion of the facility except as provided in 40 C.F.R. ؋ 270.42, until:

(i) The permittee has submitted to the Department by certified mail or hand delivery a letter signed by the permittee and a registered professional engineer stating that the facility has been constructed or modified in compliance with the permit; and

(ii) (A) The Department has inspected the modified or newly constructed facility and finds it is in compliance with the conditions of the permit; or

(B) If, within 15 days of the date of submission of the letter in paragraph 12(b)1i of this section, the permittee has not received notice from the Department of his or her intent to inspect, prior inspection is waived and the permittee may commence treatment, storage, or disposal of hazardous waste.

(c) Transfers

This permit is not transferable to any person except after notice to the Department. The Department may require modification or revocation and reissuance of the permit to change the name of the permittee and incorporate such other requirements as may be necessary under RCRA. (See 40 C.F.R. ؋ 270.40).

(d) Monitoring Reports

Monitoring results shall be reported at the intervals specified elsewhere in this permit.

(e) Compliance Schedules

Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule of this permit shall be submitted no later than 14 days following each schedule date.

(f) Twenty-Four Hour Reporting

(1) The permittee shall report any noncompliance which may endanger health or the environment orally within 24 hours from the time the permittee becomes aware of the circumstances, including:

(i) Information concerning the release of any hazardous waste that may cause an endangerment to public drinking water supplies.

(ii) Any information of a release or discharge of hazardous waste or of a fire or explosion from

the HWM facility, which could threaten the environment or human health outside the facility.

(2) The description of the occurrence and its cause shall include:

(i) Name, address, and telephone number of the owner or operator;

(ii) Name, address, and telephone number of the facility;

(iii) Date, time, and type of incident;

(iv) Name and quantity of material(s) involved;

(v) The extent of injuries, if any;

(vi) An assessment of actual or potential hazards to the environment and human health outside the facility, where this is applicable; and

(vii) Estimated quantity and disposition of recovered material that resulted from the incident.

(3) A written submission shall also be provided within 5 days of the time the permittee becomes aware of the circumstances. The written submission shall contain a description of the noncompliance and its cause; the period of noncompliance including exact dates and times, and if the noncompliance has not been corrected, the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance. The Department may waive the five day written notice requirement in favor of a written report within fifteen days.

(4) Oral Notification shall be provided to the NJDEP Hotline at (609) 292-7172. Written notification shall be provided to the Bureau of Hazardous Waste and Transfer Facilities and the Bureau of Hazardous Waste Compliance and Enforcement at the addresses provided in Condition 11 of Section II of this permit.

(g) Manifest Discrepancy Report

If a significant discrepancy in a manifest is discovered, the permittee must attempt to reconcile the discrepancy. If not resolved within fifteen days, the permittee must submit a letter report, including a copy of the manifest, to the Department. (See 40 C.F.R ₃264.72.)

(h) Unmanifested Waste Report

This report must be submitted to the Department within 15 days of receipt of unmanifested waste. (See 40 C.F.R. §264.76.)

(i) Biennial Report

A biennial report must be submitted covering facility activities during odd numbered calendar years. (See 40 C.F.R. § 264.75.)

(j) Other Noncompliance

The permittee shall report all instances of noncompliance not reported under paragraphs (d), (e) and (f) of this condition, at the time monitoring reports are submitted. The reports shall contain the information listed in paragraph (f) of this condition.

(k) Other Information

Where the permittee becomes aware that it failed to submit any relevant facts in a permit application, or submitted incorrect information in a permit application or in any report to the Department, it shall promptly submit such facts or information.

End of Section I

Section II

General Conditions Applicable to DuPont Chambers Works

1. Permit Modification or Revocation and Reissuance

   Cause for, and procedures of, modification, or revocation and reissuance of this permit shall be as provided under 40 C.F.R. ع 270.41.

2. Personnel Training (40 C.F.R. ع 264.16)

   (a) Facility personnel shall successfully complete a program of classroom instruction or on-the-job training that teaches them to perform their duties in a way that insures the facility's compliance with the requirements of 40 C.F.R. ع 264.16, as stated in the facility's Part B permit application, and as referenced in Condition 12(b) of Section II of this permit. New employees shall be trained within six (6) months of the date of employment.

   (b) The training program shall be maintained with records and documentation describing the type and amount of both introductory and continuing training that has been and will be given to each person engaged in hazardous waste management at the facility.

   (c) The permittee shall keep the training records on current personnel until closure of the facility; training records on former employees shall be kept for at least three (3) years from the date the employee last worked at the facility. Personnel training records may accompany personnel transferred within the same company.

3. Preparedness and Prevention (40 C.F.R. ع264.30 through ع264.37)
   The facility shall be designed, constructed, maintained and operated to minimize the possibility of fire, explosion, or any unplanned sudden or non-sudden release of hazardous waste or hazardous waste constituents to the air, soil, surface water or groundwater which could threaten human health or the environment.

   (a) The facility shall be equipped with emergency equipment, including but not limited to:

      (1) An internal communications or alarm system capable of providing immediate emergency instruction (voice or signal) to facility personnel;

      (2) A device, such as a telephone (immediately available at the scene of operations) or a hand-held two-way radio, capable of summoning emergency assistance from local police departments, fire departments, or

State or local emergency response teams;

(3) Portable fire extinguisher, fire control equipment, spill control equipment, and decontamination equipment; and

(4) Water at adequate volume and pressure to supply water hose streams, or foam producing equipment, or automatic sprinklers, or water spray systems.

(b) All facility communications or alarm systems, fire protection equipment, spill control equipment, and decontamination equipment, where required, shall be tested and maintained as necessary to assure its proper operation in time of emergency.

4. Contingency Plan (40 C.F.R. ؘ 264.50 through ؘ 264.56)

(a) The provisions of the Contingency Plan included in the Part B permit application plus all amendments, revisions and modifications thereof subsequently submitted for review and accepted by the Department, and as referenced in Condition 12(b) of Section II of this permit, shall be carried out immediately whenever there is a fire, explosion or release of hazardous waste constituents which could threaten human health or the environment.

(b) When an emergency coordinator determines that the facility has had a discharge, fire, or explosion which could threaten human health or the environment outside the facility, the emergency coordinator shall immediately notify the local Fire Department and local Police Department if an assessment indicates that evacuation of local areas may be advisable. The emergency coordinator shall be available to help officials decide if local areas should be evacuated. The telephone numbers are:

Fire Department: (609) 769-2900 or 911

Police Department: (609) 769-2900 or 911

(c) (1) If the facility has a discharge, fire, or explosion which could threaten human health or the environment, the following shall be notified immediately:

New Jersey Department of Environmental Protection
Communication Center/Trenton Dispatch
Bureau of Communication and Support Services
Trenton, NJ 08625
Telephone (609) 292-7172 (24 Hours)

(2) Additionally, if the emergency coordinator determines that the facility has had a discharge, fire, or explosion which could threaten human health

or the environment outside the facility, the emergency coordinator shall immediately notify:

National Response Center
2100 Second Street, SW
Washington, D.C. 20593
Telephone 1-800-424-8802 (24 Hours)

(d) If the emergency coordinator determines that the facility has had a discharge, fire, or explosion which would threaten human health or the environment, the emergency coordinator shall immediately notify the agencies listed in Condition 4(c) above. When notifying these agencies, the coordinator shall report the type of substance and the estimated quantity discharged, if known; the location of the discharge; actions the person reporting the discharge proposes to take to contain, clean up and remove the substance if any and any other information concerning the discharge which the Department may request at the time of notification.

(e) The owner or operator shall note in the operating record the time, date, and details of any incident that requires implementing the contingency plan. Within 15 days after the incident, the owner or operator shall submit a written report on the incident to the Department. The report shall include, but not be limited to:

(1) Name, address, and telephone number of the owner or operator;

(2) Name, address, and telephone number of the facility;

(3) Date, time, and type of incident;

(4) Name and quantity of material(s) involved;

(5) The extent of injuries, if any;

(6) An assessment of actual or potential hazards to human health or the environment, where this is applicable; and

(7) An estimated quantity and disposition of recovered material that resulted from the incident.

5. Security (40 C.F.R. ؘ 264.14)

(a) The permittee must maintain the security procedures as described in the facility's Part B permit application plus all amendments, revisions and modifications thereof subsequently submitted for review and accepted by the Department, and as referenced in Condition 12(a) of Section II of this permit.

(b) The permittee shall prevent the unknowing entry, and

minimize the possibility for the unauthorized entry, of persons or livestock onto the active portion of the facility.

(1) A facility shall have:

(i) A 24-hour surveillance system which continuously monitors and controls entry onto the active portion of the facility; or

(ii) An artificial or natural barrier, which completely surrounds the active portion of the facility; and a means to control entry, at all times, through the gates or other entrances to the active portion of the facility.

(2) The requirements of paragraph (b)1 are satisfied if the hazardous waste storage, treatment or disposal site is located in a facility which itself has a surveillance system, or a barrier and a means to control entry, which complies with the requirements of subparagraph (b)1i or (b)1ii.

(3) The owner or operator shall post a sign with the legend, "Danger - Unauthorized Personnel Keep Out", at each entrance to the active portion of a facility, and at other locations, in sufficient numbers to be seen from any approach to this active portion. The legend shall be written in English and in any other language prevalent in the area surrounding the facility and must be legible from a distance of at least twenty five (25) feet. Existing signs with a legend other than "Danger - Unauthorized Personnel Keep Out" may be used if the legend on the sign indicates that only authorized personnel are allowed to enter the active portion, and that entry onto the active portion can be dangerous.

6. Termination of a Permit (40 C.F.R. ج 270.43)

The following are causes for terminating a permit during its term or for denying a permit renewal application:

(a) Noncompliance with any condition of this permit; or

(b) The permittee's failure in the application or during the permit issuance process to disclose fully all relevant facts, or the permittee's misrepresentation of any relevant facts at any time; or

(c) A determination that the permitted activity endangers human health or the environment and can only be regulated to acceptable levels by permit modification or termination.

7. Operating Record (40 C.F.R. ٯ 264.73)

The permittee shall keep a written operating record at the facility in which the information required under 40 C.F.R. ٯ 264.73(b) shall be recorded. The information shall be recorded as it becomes available and maintained in the operating record until closure of the facility.

8. Permit Limitations (40 C.F.R. ٯ 270.4(c))

The issuance of this permit does not authorize any injury to persons or property or invasion of other private rights or any infringement of applicable Federal, State, or local laws or regulations.

9. Financial Requirements (40 C.F.R. Part 264 Subpart H)

(a) The permittee shall maintain financial responsibility for bodily injury and property damage to third parties caused by sudden accidental occurrences arising from operations of the facility. The permittee shall have and maintain liability coverage for sudden occurrences in the amount of at least $1 million per occurrence with an annual aggregate of at least $2 million exclusive of legal defense costs. The permittee shall demonstrate financial responsibility for sudden accidental occurrences according to the mechanisms given in 40 C.F.R. ٯ 264.147 paragraphs (a)(1), (2), (3), (4), (5) or (6).

(b) The permittee shall establish financial assurance for closure of the facility. The permittee shall use a financial assurance mechanism approved by the Department, from the options specified in paragraphs (a) through (f) of 40 C.F.R. ٯ 264.143.

(c) The permittee shall have a detailed written closure cost estimate of closing the facility in accordance with 40 C.F.R. ٯ 264.142(a). The permittee shall adjust the closure cost estimate for inflation within sixty (60) days prior to the anniversary date of the establishment of the financial instrument(s) used to comply with 40 C.F.R. ٯ 264.143. If the permittee uses the financial test or corporate guarantee, the closure cost estimate shall be updated for inflation within thirty (30) days after the close of the firm's fiscal year and before submission of the updated information to the Department. The adjustment may be made by recalculating the maximum costs of closure in current dollars, or by using an inflation factor derived from the most recent Implicit Price Deflator for Gross National Product published by the U.S. Department of Commerce in its *Survey of Current Business.* The inflation factor is the result of dividing the latest published annual Deflator by the Deflator for the previous year.

(1) The first adjustment is made by multiplying the closure cost estimate by the inflation factor. The result is the adjusted closure cost estimate.

(2) Subsequent adjustments are made by multiplying the latest adjusted closure cost estimate by the latest inflation factor.

(d) During the active life of the facility, the permittee shall revise the closure cost estimate no later than (30) days after the Department has approved the request to modify the closure plan, if the change in the closure plan increases the cost of closure. The revised closure cost estimate must be adjusted for inflation as specified in 40 C.F.R. ؘ 264.142(b).

(e) The permittee shall keep at the facility during the operating life of the facility, the latest closure cost estimate prepared in accordance with 40 C.F.R. ؘ 264.142(a) and (c) and, when this estimate has been adjusted in accordance with 40 C.F.R. ؘ 264.142(b), the latest adjusted closure cost estimate.

(f) The wording of all financial documents (except for the insurance policy itself) that are submitted under paragraphs (a), (b) and (c) of this Condition must be as per 40 C.F.R. ؘ 264.151 with the changes specified at N.J.A.C. 7:26G-8.1(c)8.

10. Compliance with Other State Regulations and Statutes

The permittee shall comply with all regulations of the Department of Environmental Protection and other State Statutes applicable to the facility. Regulations are effective upon publication in the New Jersey Register or as otherwise indicated in the Notice of Adoption in the New Jersey Register.

11. Submission of Documents Required by Permit Conditions

The permittee shall submit all permit compliance documents required by this permit to the following:

(a) New Jersey Department of Environmental Protection
Bureau of Hazardous Waste and Transfer Facilities
P.O. Box 414
Trenton NJ 08625-0421

(b) New Jersey Department of Environmental Protection
Bureau of Hazardous Waste Compliance and Enforcement -
One Port Center
2 Riverside Drive, Suite 201
Camden NJ 08102

12. Referenced Permit Application Documents

(a) The permittee shall operate the facility, and construct or install associated appurtenances thereto, in accordance with the regulations contained in 40 C.F.R. Parts 260 through 270, the conditions of this permit, and the following permit application documents:

(1) Sections A, B, and C, submitted June 13,1988, and Sections F, G, H, I, J, K and L, submitted December 21, 1988, of the Part B permit application submitted by John Migliore, Area Consultant, Environmental Affairs.

(2) Section D-3 - Chemical Waste Container Storage and D-7 - Telomer "A" Treatment Tank of the Part B permit application dated November 1987 and revised December 1988, submitted December 21, 1988 by John Migliore, Area Consultant, Environmental Affairs.

(3) Revised Part A permit application dated July 12, 1989, submitted by Alfred H. Pagano, Senior Consulting Associate, Environmental Affairs.

(4) Revision to Part B permit application for Chemical Waste Container Storage Area dated December 11, 1989, submitted by Bradley S. Martin, Area Engineer, Environmental Affairs.

(5) Revisions to Part B permit application for Telomer "A" Treatment Tank dated February 9, 1990 and March 12, 1990, submitted by Bradley S. Martin, Area Engineer, Environmental Affairs.

(6) Revision to Part B permit application for Chemical Waste Container Storage Area and Telomer "A" Treatment Facility dated July 26, 1990, submitted by Bradley S. Martin, Area Consultant, Environmental Affairs.

(7) Revision to Part B permit application for Chemical Waste Container Storage Area and Telomer "A" Treatment Facility dated November 21, 1990, submitted by Bradley S. Martin, Area Consultant, Environmental Affairs.

(8) Revised Waste Analysis Plan for Aqueous Drummed Waste, dated January 14, 1991, submitted by Bradley S. Martin, Area Engineer, Environmental Affairs.

(9) Report concerning 100-year flood at container storage area, dated August 1991, submitted September 3, 1991, by John Hnat, Senior Consultant, Environmental Affairs.

(10) The following engineering drawings and designs:

(i) Chemical Waste Area, Drummed Storage Pad, drawing no. DW-36924.

(ii) Chemical Waste Area, Tank Truck Unloading, drawing no. DW-33296, signed and sealed by Craig Calabria, P.E.

(iii) Telomer "A" Treatment Tank designs, drawings numbered DW-6927 and DWD-7748, signed and sealed by Craig Calabria, P.E.

(iv) Spill containment systems for Building 1205, drawings numbered W-367828, W-365282 W-332320, W-339314, and DW-33697.

(11) Hazardous Waste Facility Permit Modification Request for the Chemical Waste Container Storage Area at DuPont Chambers Works dated December 12, 1991, submitted by John G. Hnat, Senior Consultant, Environmental Affairs.

(12) Request for major permit modification submitted by John Hnat, Senior Consultant, Environmental Treatment, dated May 10, 1994.

(13) Section D-4, Chemical Waste Tank Storage, of Part B permit application dated November 1987, submitted December 21, 1988 by John Migliore, Area Consultant, Environmental Affairs.

(14) Revision to Part B Permit Application for Chemical Waste Tank Storage, dated June 27, 1989, submitted by John Migliore, Area Consultant, Environmental Affairs.

(15) The following engineering drawings and designs:

(i) Dike details for storage tanks TS1, 2, 4 & 7, drawing no. DW-33290, dated May 28, 1987.

(ii) Tank details for tank TS-4, drawing no. DWD-23644, dated September 2, 1987.

(iii) Tank details for tank TS-7, drawing no. DWD-23691, dated November 11, 1985.

(iv) Tank details for tank TS-1 drawing no. DWD-15362 and DW-17814.

(v) Tank details for tank TS-2, drawing no. M-1979-2.

(16) Details on the RCRA Containment Building as referenced in the Request for Permit Modification

and the Supplement to the Request for Permit Modification for the On-site WWTP Permit dated June 25, 1993, and April 5, 1994, respectively, submitted by John Hnat, Senior Consultant, Environmental Treatment.

(17) Chambers Works Contingency Plan as referenced in the Permit Renewal Application for the On-site WWTP dated November 29, 1994, submitted by John Hnat, Senior Consultant, Environmental Treatment.

(18) Supplemental Information for the Storage and Treatment Facilities Permit Application dated January 27, 1995, submitted by John Hnat, Senior Consultant, Environmental Treatment.

(19) Request for Permit Renewal dated March 26, 1996, submitted by Jennifer D. The, Environmental Manager, Environmental Treatment.

(20) Response to Technical Notice of Deficiency dated November 27, 1996, submitted by Jennifer D. The, Environmental Manager, Environmental Treatment.

(21) Additional Information for Permit Renewal dated February 21, 1997, and May 28, 1997, submitted by Jennifer D. The, Environmental Manager, Environmental Treatment.

Added 03-01-00 (22) Revised Closure Plan for Storage and Treatment Facilities Operated at DuPont Chambers Works dated December 3, 1998, submitted by Maria S. Angelo, Environmental Manager, Environmental Treatment.

Added 03-01-00 (23) Amendment to the Waste Analysis Plan providing additional details on waste acceptance for fuel blending activities at Chambers Works dated June 10, 1999, submitted by Maria S. Angelo, Environmental Manager, Environmental Treatment.

Added 02-28-01 (24) Amendment to the Waste Analysis Plan to allow for the increased frequency of analytical sampling for incoming waste shipments dated October 10, 2000, submitted by Maria S. Angelo, Environmental Manager, Environmental Treatment.

In case of conflict, the applicable hazardous waste management regulations contained in 40 C.F.R. shall have precedence over the conditions of this permit, and the conditions of this permit shall have precedence over the Part B permit application documents listed above.

(b) One complete set of the permit application documents listed in Condition 12(a) above, this Hazardous Waste Facility Permit, and all records, reports and plans as may be required pursuant to this permit shall be kept on-site and shall be available for inspection by authorized

representatives of the Department upon presentation of credentials. The records, reports and plans required pursuant to this permit include the following:

(1) The description of the personnel training program and the records required by Condition 2 of Section II of this permit and 40 C.F.R. ؋ 264.16.

(2) The Contingency Plan required by Condition 4 of Section II of this permit and 40 C.F.R. ؋ 264.50, and specifically the plan dated November 18, 1994, as submitted on November 29, 1994.

(3) The written Operating Record required by Condition 7 of Section II of this permit and 40 C.F.R. ؋ 264.73.

(4) Copies of the financial documents and closure cost estimate required by Condition 9 of Section II of this permit and 40 C.F.R. 264.140.

Modified 03-01-00 02-28-01 (5) The Waste Analysis Plan outlined in Condition 3 of Section III of this permit and as required by 40 C.F.R. ؋ 264.13, and specifically the plan dated March 1996, as submitted on March 26, 1996, with amendments dated June 10, 1999, and October 10, 2000.

(6) The Inspection Schedule required by 40 C.F.R. ؋ 264.15(b) and the records required by Condition 4 of Section III of this permit.

Modified 03-01-00 (7) The Closure Plan required by Condition 5 of Section III of this permit and 40 C.F.R. ؋ 264.112 and specifically the plan dated December 3, 1998.

End of Section II

Section III

Specific Conditions Applicable to DuPont Chambers Works

1. Authorized Activities

(a) Chemical Waste Container Storage Area

(1) The permittee is authorized to accept both commercially generated and onsite generated waste in containers for storage, treatment, and transfer at the areas detailed on drawings numbered DW-33296 and DW-36924 as identified in the permit application documents and design drawings cited at Condition 12(a) of Section II of this permit, and as follows:

No.	Storage Area	Capacity (gallons)	Min. Aisle Space
A	Container Storage	580,500 (9,900 drums + cylinders, tote tanks or trailers)	30"
B	Tank Trailers	28,000 (4 tote tanks or trailers)	1 per storage spot
C	Tank Trailers	56,000 (8 tote tanks or trailers)	1 per storage spot

(i) The permittee is authorized to store containers, such as drums, cylinders, tank trailers, tote tanks, roll offs, or other approved container types in Storage Area A up to the maximum gallon capacity and number of containers listed in the table above.

(ii) The permittee is authorized to store tank trucks, tote tanks, roll offs, or other approved container types in Storage Areas B and C up to the maximum gallon capacities listed in table above.

(iii) The permittee is authorized to utilize the drum warming cabinet located in Storage Area A for heating of containers for unloading purposes.

(iv) The permittee is authorized to conduct the following general types of treatment on containerized wastestreams at the facility using appropriate portable equipment and temporary fixtures: transloading, repackaging, and consolidation; blending and mixing; separation, filtration, and stabilization.

(2) The maximum amount of containerized waste in storage at the areas identified in Condition 1(a)1, above, shall not exceed 652,500 gallons (equivalent to approximately 9,900 fifty-five gallon drums + tote

tanks and trailers).

(3) Secondary containment systems shall be maintained for all areas identified at Condition 1(a)1 of Section III of this permit. The secondary containment systems shall be designed and operated in accordance with the permit application documents and design drawings cited at Condition 12(a) of Section II of this permit. Secondary containment systems shall be maintained free of cracks or gaps and be of adequate capacity and sufficient impermeability to contain leaks, spills, and accumulated rainfall until the collected material is detected and removed. Containment bases shall have adequate structural integrity to withstand the maximum stress applied due to activities or structures placed in the containment areas. The secondary containment systems shall be maintained and operated to efficiently drain and remove liquids resulting from leaks, spills, and precipitation.

(4) Spilled or leaked waste or accumulated precipitation shall be removed from the secondary containment systems in a timely manner, to prevent blockage or overflow of the collection system.

(5) If a container holding hazardous waste is not in good condition (e.g., severe rusting, apparent structural defects) or if it begins to leak, the permittee shall transfer the hazardous waste from the container to a container that is in good condition or manage the waste in some other way that complies with the requirements of 40 C.F.R. ؋ 264.171.

(6) The containers shall be managed in compliance with all provisions of 40 C.F.R. ؋ 264.173. All drummed waste shall be stored on pallets. Drums shall be stacked to a maximum height of three (3) high. All cylinders shall be laid down and chocked.

(7) The permittee shall not place a waste which is incompatible with waste already in a container, or incompatible with a material of construction of a container, in that container. The permittee shall not place a hazardous waste in an unwashed container which previously held an incompatible waste or material. The permittee shall evaluate each waste, prior to its addition to any container, to ensure compliance with 40 C.F.R. ؋ 264.17(b).

(8) Prior to an event which would cause floodwaters to enter Storage Area A, the permittee shall anchor all containers to prevent their movement in a flood, and seal off the entrance to the area by placement of a metal gate at the entrance. In the case of drums,

all drums shall be stacked to a height of at least two high for anchorage.

(b) Tank Storage and Treatment

(1) The permittee is authorized to accept both commercially generated and onsite generated waste for storage, treatment, and transfer in the storage tanks detailed on drawing nos. DWD-15362, DW-17814, DWD-23644, DWD-23691, and M-1979-2 as identified in the permit application documents and design drawings cited at Condition 12(a) of Section II of this permit, and as follows:

Tank Number	Volume (gallons)
TS-1	10,000
TS-2	6,000
TS-4	15,000
TS-7	8,500

(2) The maximum tank storage and treatment capacity shall not exceed 39,500 gallons.

(3) Secondary containment systems shall be maintained for all tanks identified at Condition 1(b)1 of Section III of this permit. The secondary containment systems shall be designed and operated in accordance with the permit application documents and design drawings cited at Condition 12(a) of Section II of this permit. Secondary containment systems shall be maintained free of cracks or gaps and shall have adequate capacity and impermeability to contain leaks, spills, and precipitation from a 25-year, 24-hour rainfall event until the collected material is detected and removed. The secondary containment systems shall be maintained and operated to efficiently drain and remove liquids resulting from leaks, spills, and precipitation.

(4) Spilled or leaked waste and accumulated precipitation shall be removed from the secondary containment system within twenty four (24) hours, or in as timely a manner as is possible to prevent harm to human health and the environment.

(5) The permittee shall operate the tanks in accordance with 40 C.F.R. § 264.194.

(6) The permittee shall comply with the requirements of 40 C.F.R. § 264.198 for the management of ignitable or reactive wastes in the tanks authorized by Condition 1(b)1 of Section III of this permit.

(7) The permittee shall comply with the requirements of 40 C.F.R. ؋ 264.199 for the management of incompatible wastes in the tanks authorized by Condition 1(b)1 of Section III of this permit. The permittee shall not place a waste which is incompatible with the material of construction of a tank, in that tank, prior to compliance with 40 C.F.R. ؋ 264.17(b). The permittee shall not place a hazardous waste in a tank system that has not been decontaminated and that previously held an incompatible waste or material prior to compliance with 40 C.F.R. ؋ 264.17(b).

(8) In response to leaks or spills and disposition of leaking or unfit for use tank systems, the permittee shall comply with the requirements cited at 40 C.F.R. ؋ 264.196 as follows:

(i) Cessation of use; prevent flow or addition of wastes. The owner or operator must immediately stop the flow of hazardous waste into the tank system or secondary containment system and inspect the system to determine the cause of the release.

(ii) Removal of waste from tank systems or secondary containment system.

(A) If the release was from a tank system, the permittee must, within 24 hours after detection of the leak or, if the permittee demonstrates that it is not possible, at the earliest practicable time, remove as much of the waste as is necessary to prevent further release of hazardous waste to the environment and to allow inspection and repair of the tank system to be performed.

(B) If the material released was to a secondary containment system, all released materials must be removed within 24 hours or in as timely a manner as is possible to prevent harm to human health and the environment.

(iii) Containment of visible releases to the environment. The permittee must immediately conduct a visual inspection of the release and, based upon that inspection:

(A) Prevent further migration of the leak or spill to soils or surface water; and

(B) Remove, and properly dispose of, any visible contamination of the soil or

surface water.

(iv) Notifications, reports.

(A) Any release to the environment, except as provided in the following paragraph (iv)B, must be reported to the Department within 24 hours of its detection. If the release has been reported pursuant to 40 CFR part 302, that report will satisfy this requirement.

(B) A leak or spill of hazardous waste is exempted from the requirements of this paragraph if it is:

(1) Less than or equal to a quantity of one (1) pound, and

(2) Immediately contained and cleaned up.

(C) Within 30 days of detection of a release to the environment, a report containing the following information must be submitted to the Department:

(1) Likely route of migration of the release;

(2) Characteristics of the surrounding soil (soil composition, geology, hydrogeology, climate);

(3) Results of any monitoring or sampling conducted in connection with the release (if available). If sampling or monitoring data relating to the release are not available within 30 days, these data must be submitted to the Department as soon as they become available.

(4) Proximity to downgradient drinking water, surface water, and populated areas; and

(5) Description of response actions taken or planned.

(v) Provision of secondary containment, repair, or closure.

(A) Unless the permittee satisfies the requirements of the following paragraphs (v)(B) through (v)(D) of this section, the tank system must be closed in accordance

with 40 C.F.R. ؘ 264.197 and Condition 5(a) of Section III of this permit.

(B) If the cause of the release was a spill that has not damaged the integrity of the system, the permittee may return the system to service as soon as the released waste is removed and repairs, if necessary, are made.

(C) If the cause of the release was a leak from the primary tank system into the secondary containment system, the system must be repaired prior to returning the tank system to service.

(D) If the source of the release was a leak to the environment from a component of a tank system without secondary containment, the permittee must provide the component of the system from which the leak occurred with secondary containment that satisfies the requirements of 40 C.F.R. ؘ 264.193 before it can be returned to service, unless the source of the leak is an aboveground portion of a tank system that can be inspected visually. If the source is an aboveground component that can be inspected visually, the component must be repaired and may be returned to service without secondary containment as long as the requirements of paragraph (vi) below of this section are satisfied. If a component is replaced to comply with the requirements of this subparagraph, that component must satisfy the requirements for new tank systems or components in 40 C.F.R. ؘؘ 264.192 and 264.193. Additionally, if a leak has occurred in any portion of a tank system component that is not readily accessible for visual inspection (e.g., the bottom of an inground or onground tank), the entire component must be provided with secondary containment in accordance with 40 C.F.R. ؘ 264.193 prior to being returned to use.

(vi) Certification of major repairs. If the permittee has repaired a tank system in accordance with paragraph (v) above, and the repair has been extensive (e.g., installation of an internal liner; repair of a ruptured primary containment or secondary containment vessel), the tank system must not be returned to service unless the permittee has obtained a certification by an independent, qualified,

registered, professional engineer in accordance with 40 C.F.R. § 270.11(d) that the repaired system is capable of handling hazardous wastes without release for the intended life of the system. This certification must be submitted to the Department within seven days after returning the tank system to use.

(c) RCRA Containment Building

(1) The permittee is authorized to utilize a RCRA Containment Building (1178 Bldg.) for decontamination of containers and debris, pretreatment of wastestreams destined for the on-site WWTP, and storage, treatment, and transfer of containerized wastes (from both on-site and off-site sources) prior to shipment to authorized on-site or off-site facilities. The containment building shall not be used to manage wastes containing free liquids, or to treat wastes with free liquids, unless these wastes are managed within containers.

(2) The maximum storage and treatment capacity of the RCRA Containment Building shall not exceed 82,000 gallons. Any containers stored in the containment building shall be managed in compliance with all provisions of 40 C.F.R. § 264.173. Aisle space for stored containers shall be maintained at a minimum of thirty (30) inches and stacking height shall be limited to the equivalent of three (3) drums high. All cylinders shall be laid down and chocked.

(3) The RCRA Containment Building shall be maintained to meet the design and operational standards of 40 C.F.R. § 264.1101 including the use of controls and practices to ensure containment of hazardous waste within the unit. Such practices shall include:

(i) Maintenance of the containment barrier to be free of cracks, gaps, corrosion, or other deterioration that could cause a release of hazardous waste;

(ii) Control of the stored and treated hazardous waste maintained within the containment barrier;

(iii) Prevention of the tracking of hazardous waste out of the containment barrier by personnel or by equipment used in handling the waste. An appropriate area shall be designated to decontaminate equipment and any rinsate shall be collected and properly managed; and

(iv) Control of fugitive emissions such that any

openings (doors, windows, vents, cracks, etc.) exhibit no visible emissions. This state of no visible emissions shall be maintained effectively at all times during routine operating and maintenance conditions, including when vehicles and personnel are entering and exiting the unit.

(4) Upon detection of a condition that could lead to or has caused the release of hazardous waste, the permittee shall repair the condition promptly in accordance with the following procedures:

(i) Enter a record of the discovery in the facility operating record;

(ii) Immediately remove from service that portion of the containment building affected by the condition;

(iii) Determine the steps to be taken to repair the containment building and remove associated contamination, and establish a schedule for accomplishing the cleanup and repairs; and

(iv) Within seven(7) days after discovery of the condition, notify the Department of the condition, and within fourteen(14) working days, provide a written notice to the Department with a description of the steps taken to repair the containment building, and the schedule for accomplishing the work.

(d) Telomer "A" Catalyst Residue and Filter Bag Treatment Facility

(1) The permittee is authorized to treat Catalyst Residue, Catalyst Residue Filter Bags, Filter Cloths and Filter Bags/Cake Residue as identified in Condition 2 of this Section in the 840 gallon, carbon steel brick lined treatment tank (T-130) and filter press referenced in Condition 12(a) of Section II of this permit. The tank shall be fitted with an agitator and a coil serviced by steam and water for heating and cooling.

(2) The waste shall be stored in the Chambers Works Chemical Waste Container Storage Area until the waste is ready to be treated in the tank. When the treatment facility is ready to be operated, the permittee is authorized to move a maximum of eight (8) drums from the container storage area to the second floor of Building 1205 and stage the drums adjacent to tank T-130 awaiting treatment. Drums shall be staged next to the treatment tank for a maximum of ten (10) days.

(3) Telomer "A" Treatment Process

(i) The Telomer "A" catalyst residue and filter bags/cake residue shall be neutralized to a pH of 9-10 in the treatment tank. Aqueous solutions of lime (calcium hydroxide) or caustic (sodium hydroxide) are used for neutralization.

(ii) When the reaction is determined to be complete, the Catalyst Residue limed slurry shall be cooled and the tank contents shall be pumped from the bottom of the tank into filter press F-343 located on the first floor of Building 1205. The filtrate from the press shall be sent to the on-site wastewater treatment plant, and the precipitate shall be collected and drummed and shipped to an authorized facility. When the reaction of the Filter Bags/Cloths and residue is complete, the aqueous system containing the soluble sodium salts shall be drained and sent to the on-site wastewater treatment plant, and the neutralized bags and cloths shall be rinsed, collected, drummed and shipped to an authorized facility.

(iii) Following each treatment campaign, the tank (T-130) shall be decontaminated using dilute acid and hot-water washes or high pressure washes.

(4) A secondary containment system consisting of the Building 1205 spill containment system referenced in the documents cited at Condition 12(a) of Section II of this permit shall be maintained free of cracks or gaps shall have adequate capacity and impermeability to contain leaks, spills and precipitation until the collected material is detected and removed. The secondary containment system shall have adequate structural integrity to withstand the maximum stress applied to the base due to activities or structures placed in the containment area. The secondary containment system shall be maintained and operated to efficiently drain and remove liquids resulting from leaks, spills and precipitation.

(5) Spilled or leaked waste and accumulated precipitation shall be removed from the secondary containment system within twenty four hours, or in as timely a manner as is possible to prevent harm to human health and the environment.

(6) In response to leaks or spills and disposition of leaking or unfit for use tank systems, the permittee shall comply with the requirements cited at 40

C.F.R. ؘ 264.196 and Condition 1(b)(8) of Section III of this permit.

(e) The permittee shall not store or treat hazardous waste at any location at the facility other than those authorized in (a), (b), (c), and (d) above.

(f) The permittee must obtain prior approval from the Department to make any changes or alterations to the authorized activities in this condition.

2. Authorized Wastes

(a) The permittee is authorized to accept shipments of the following wastes for storage, treatment, and transfer in containers or tanks (except for the Telomer "A" Catalyst Residue and Filter Bag Treatment Facility):

Waste Number	Waste Identification or Description
All "D"	Solid waste which exhibits hazardous characteristics
All "F"	Hazardous waste from non-specific sources

[EXCEPTION: F020, F021, F022, F023, F026, and F027 hazardous wastes which contain concentrations of dioxins greater than one part per billion (1 ppb).]

All "K"	Hazardous waste from specific sources
All "P"	Commercial chemical products, manufacturing chemical intermediates, off-specification species, and spill residues thereof which are identified as acute hazardous waste
All "U"	Commercial chemical products, manufacturing chemical intermediates, off-specification species, and spill residues thereof which are identified as toxic hazardous waste
ID72	Non-hazardous liquids and semi-liquids

The permittee is authorized to store DuPont generated solid non-hazardous waste in addition to the hazardous waste types listed above.

Modified 03-01-00

(b) The permittee is authorized to treat the following wastes at the Telomer "A" Catalyst Residue and

Filter Bag Treatment Facility:

Waste Number	Waste Identification or Description
D002, D003, D007	Telomer "A" Catalyst Residue and Filter Bags containing iodine, iodine pentafluoride and antimony pentafluoride generated from the Washington Works DuPont facility located in Parkersburg, West Virginia.
D002, D003, D007	Filter Cloths from the clarification of Telomer B, BL and/or BN contaminated with iodine, iodine pentafluoride and antimony pentafluoride generated on-site at Chambers Works.
D002, D003, D007	Filter Bags/Cake Residue from the Telomer B Alcohol process contaminated with sulfuric acid and hydrogen iodide generated on-site at Chambers Works.

3. Waste Analysis and Quality Assurance Requirements

The permittee shall adhere to the provisions of the waste analysis plan cited in Condition 12(b)5 of Section II of this permit and any subsequent revisions approved by the Department.

(a) Each wastestream accepted at this location shall be fully identified and classified in accordance with 40 C.F.R. ؘ 264.13. At a minimum, the permittee shall develop all of the information which must be known to store and treat the waste onsite in accordance with the provisions of this permit, as well as to treat or dispose of the waste at authorized offsite facilities.

(b) The permittee must grant advanced authorization for shipments of each wastestream to the facilities authorized by this permit. Prior to granting such authorization, the permittee shall obtain a completed waste characterization form, or equivalent document which contains waste profile information supplied by the generator and, if necessary to grant advanced authorization, detailed analytical data or a representative pre-shipment sample of the waste from the generator.

The permittee shall evaluate all data received from the generator, or from the analysis of the pre-shipment sample, when obtained, to determine if the wastestream

can be safely stored and effectively treated. In addition, the permittee shall confirm that (1)the data is sufficient for the intended ultimate destination facility, (2)the wastestream is acceptable to the intended ultimate destination facility, and (3)the generator does not dis-approve of the ultimate destination facility or treatment/disposal method. Only wastestreams which have been evaluated and approved by the permittee shall be eligible for acceptance.

The permittee shall recharacterize and reevaluate each wastestream handled at the facility whenever (1)the generator informs the permittee of a change in the operation generating the waste, (2)a change in the character of the waste is observed during storage or treatment, or (3)bi-annually, whichever is more frequent.

(c) Each shipment of waste shall be sampled and analyzed for "load verification" prior to acceptance by the permittee. For each bulk shipment of waste received, the permittee shall collect a representative sample by compositing several samples taken from different locations/depths within the transport unit. For each containerized shipment of waste received, the permittee shall collect a representative sample from no less than ten (10) percent of containers holding the same wastestream from the same generator; except that containers less than 35 gallons in size shall have a representative sample taken from each 350 gallons of total volume shipped (e.g., one sample taken in a shipment of thirty-five 10 gallon pails containing the same wastestream from the same generator). Multiple samples from the same wastestream and generator may be composited for analysis.

Load verification analyses shall consist of field evaluation/fingerprinting techniques and/or laboratory analysis as identified in the waste analysis plan to determine if the shipment is consistant with the approved wastestream specifications. The permittee shall determine the appropriate evaluation or analysis to be undertaken on a case by case basis. In addition, compatibility testing shall be conducted on all wastestreams to be bulked and/or blended at the facility. Compatibility testing shall be conducted in accordance with the following guidance documents, or using alternative methods approved by the Department: EPA Publication 600/2-80-076, Method for Determining the Compatibility of Hazardous Waste, and ASTM's publication, Estimating the Incompatibility of Selected Hazardous Wastes Based on Binary Chemical Reactions.

The results of load verification analyses shall be compared to the data contained in the waste profile and/or developed from analysis of a pre-shipment sample to determine acceptability of the shipment. Any

discrepancies shall be resolved with the generator prior to acceptance of the waste shipment. In the event that a discrepancy cannot be resolved, the waste shipment shall not be accepted by the permittee.

(d) The sampling and analytical requirements of Conditions 3(b) and (c), above, do not apply to shipments to be accepted at the facility if adequate waste identification and handling information is available from a completed waste characterization form, waste profile, and/or material safety data sheet and if the shipment meets one of the following conditions:

(1) Shipment accepted for storage and transfer only and will not be opened at the facility;

(2) Commercial products or materials packaged in their original un-opened container as provided by the manufacturer; or

(3) Inherently dangerous materials which would pose a significant threat to human health or the environment (e.g., reactive waste, cyanides, sulfides, fuming acids); or

(4) Shipment is generated within the Chambers Works site and has been pre-approved for management within the facilities authorized by this permit.

(e) The permittee shall not accept any waste shipment which has not been adequately identified as specified in Conditions 3(a), (b), (c), and/or (d) of Section III of this permit. The permittee shall not accept any waste type which is not authorized by Condition 2 of Section III of this permit.

(f) Sampling methods and all waste analyses performed shall be in accordance with the procedures outlined in the waste analysis plan cited in Condition 12(b)5 of Section II of this permit, and shall employ equipment and analysis methods as described in the latest edition of USEPA Manual SW-846 or as otherwise approved by the Department.

(g) The permittee shall maintain in the written Operating Record required by Condition 7 of Section II of this Permit, as per 40 C.F.R. ₃264.73(b)(3), records and results of all waste analyses performed. Such records and results shall be entered into the written Operating Record as they become available and shall be maintained until closure of the facility.

(h) The permittee shall maintain the following information as per 40 C.F.R. ₃ 270.30(j)(3)in the written Operating Record:

(1) The date, exact place, and time of sampling or measurements;

(2) The individual(s) who performed the sampling or measurements;

(3) The date(s) the analyses were performed;

(4) The individual(s) who performed the analysis;

(5) The analytical techniques or methods used; and

(6) The results of the analysis.

(i) No changes shall be made to the waste analysis plan without the prior approval of the Department.

4. Inspection Requirements (40 C.F.R. ؘ264.15, ؘ264.174, ؘ264.174 and ؘ 270.14(b)(5)

(a) The permittee shall inspect the facility for malfunctions and deterioration, operator errors, and leaks or other discharges which may be a threat to human health and the environment. The permittee shall follow a written inspection schedule for inspection of operating areas, storage and treatment units, safety and emergency equipment, and general site safety and security devices as detailed in the permit application documents cited in Condition 12(a) of Section II of this permit and identified below. Results of the inspections shall be made part of the inspection log and shall be maintained as specified in Condition 4(d) of this section.

(1) **Container Storage**

Area/Item	Inspect For	Frequency
Containers	Number/Inventory	Weekly
	Damage	Weekly
	Leaks	Weekly
	Labels	Weekly
	Segregation by waste type	Weekly
	Aisle space	Weekly
	Stacking height	Weekly
Pallets (when used)	Damage, deterioration	Weekly
Secondary	Cracks, spalling,	Weekly

Containment Systems	uneven settlement, deterioration	
	Spills, precipitation, debris	Weekly

(2) **Tank Storage**

Area/Item	Inspect For	Frequency
Tank Operation:		
Liquid level gauges	Function/Inventory	Daily
High level alarms	In-service Status Function	Daily Monthly
Waste feed cutoffs	In-service Status Function	Daily Monthly
Secondary Containment Systems	Cracks, spalling, uneven settlement, deterioration	Daily
	Spills, precipitation, debris	Daily
Tanks (internal):		
Roof	Corrosion, deterioration, cracking, perforations	Annual
Shell	Corrosion, deterioration, cracking, bulging, perforations	Annual
Bottom	Corrosion, deterioration, pits, depressions, seams, unevenness	Annual
Tanks (external):		
Tank identification number, markings	Visibility	Monthly
Shell, roof	Corrosion, deterioration, discoloration, bulging, cracking, perforations	Daily
Pipes, valves, fittings	Leaks, corrosion, damage, deterioration	Daily
Ladders, platforms, supports	Stability, damage, deterioration	Daily

Anchor bolts	Distortion, corrosion	Daily

(3) **Safety/Emergency Equipment**

Area/Item	Inspect For	Frequency
Alarms	Function	Weekly
Telephones, communication equipment	Function	Weekly
First aid supplies	Availability	Weekly
Protective clothing	Availability	Weekly
Safety showers	Function	Weekly
Spill control supplies	Availability	Weekly
Fire control systems and equipment	In-Service Status Function	Weekly Semi-annual

(4) **General Facility Safety and Security**

Area/Item	Inspect For	Frequency
Housekeeping	Cleanliness, orderliness	Daily
Evacuation Routes	Obstructions	Daily
Fence, gates	Security, function	Daily
Warning signs	Availability, legibility	Daily

(b) Additional Inspections for Tank Systems

(1) Initial Tank System Assessment (40 C.F.R. ؋264.191)

The permittee shall obtain and keep on file at the facility a written initial tank system assessment for each tank system, reviewed and certified by an independent, qualified registered professional engineer, in accordance with 40 C.F.R. ؋ 270.11(d), that attests to each tank system's integrity.

(i) This assessment must determine that the tank system is adequately designed and has sufficient structural strength and compatibility with the waste(s) to be stored or treated, to ensure that it will not collapse, rupture, or fail. At a minimum, this

assessment must consider the following:

(A) Design standard(s), if available, according to which the tank and ancillary equipment were constructed;

(B) Hazardous characteristics of the waste(s) that have been and will be handled;

(C) Existing corrosion protection measures;

(D) Documented age of the tank system, if available (otherwise, an estimate of the age); and

(E) Results of a leak test, internal inspection, or other tank integrity examination for the tank, and for ancillary equipment, this assessment must include either a leak test, as described above, or other integrity examination, that is certified by an independent, qualified, registered professional engineer in accordance with 40 C.F.R. ¬ 270.11(d), that addresses cracks, leaks, corrosion, and erosion.

(ii) If, as a result of the assessment, a tank system is found to be leaking or unfit for use, the permittee must comply with the requirements of Condition 1(b)8 of Section III of this permit.

(2) Periodic Tank System Assessment

The permittee shall conduct periodic assessments of storage tanks and ancillary equipment in accordance with 40 C.F.R. ¬ 264.193(i) and as follows until such time as tank secondary containment meets the requirements of 40 C.F.R. ¬ 264.193.

(i) For tanks, the permittee shall either conduct an annual leak test in accordance with 40 C.F.R. ¬ 264.191(b)(5) or develop a schedule and procedure for an assessment of the overall condition of the tank system by an independent, licensed professional engineer. The schedule and procedures must be adequate to detect obvious cracks, leaks, and corrosion or erosion that may lead to cracks and leaks. The owner or operator must remove the stored waste from the tank, if necessary, to allow the condition of all internal tank surfaces to be assessed. The frequency of these assessments must be based on the material of construction of the tank and its ancillary

equipment, the age of the system, the type of corrosion or erosion protection used, the rate of corrosion or erosion observed during the previous inspection, and the characteristics of the waste being stored or treated.

(ii) For ancillary equipment, a leak test or other integrity assessment approved by the Department, shall be conducted at least annually.

(c) Additional Inspections for the RCRA Containment Building

The permittee shall inspect and record in the facility's operating record, at least once every seven days, data gathered from monitoring equipment and leak detection systems as well as inspections of the containment building and the area immediately surrounding the containment building to detect signs of releases of hazardous waste.

(d) A log shall be kept of all inspections specified in Conditions 4(a), (b), and (c), above, to confirm adequate maintenance of the hazardous waste storage and treatment units and all associated appurtenances. Results of all required inspections shall be maintained in the log at the facility for a minimum of three (3) years. At a minimum, this log must include the date and time of each inspection, the name of the inspectors, a notation of the observations made, and the date and nature of any repairs or other remedial actions performed.

(e) The permittee shall remedy any deterioration or malfunction of equipment or structures which the inspection reveals on a schedule which ensures that the problem does not lead to an environmental or human health hazard. Where a hazard is imminent or has already occurred, remedial action shall be taken immediately.

Equipment found to be leaking when inspected in accordance with 40 C.F.R. ؋ 264 Subpart BB, shall be repaired in accordance with the requirements of that Subpart. Records of inspections and repairs conducted in accordance with 40 C.F.R. ؋ 264 Subpart BB, shall be recorded in the inspection log identified in Condition 4(d) of Section III of this permit and shall include the information required by 40 C.F.R. ؋ 264.1064.

5. Closure of Hazardous Waste Management Units (40 C.F.R. ؋ 264.110)

(a) At the time of final closure, the permittee shall close the facility in the manner that is stated in 40 C.F.R. ؋

264.110, in accordance with the closure plan referenced in Condition 12(b)7 of Section II of this permit, and the following:

(1) Within ninety (90) days from receipt of the final volume of waste, all waste in the container storage areas, tanks, treatment units, containment building, and associated equipment shall be shipped to an authorized facility.

(2) Once empty, all tanks, piping, equipment, and associated structures shall be washed three (3) successive times with water, solvents, or other washing fluid which is compatible with waste which had been held within the unit, and rinsed. High pressure washing or steam cleaning may be employed as necessary to remove waste residues. Once cleaned, tanks shall be entered for inspection and wiped or scraped as necessary to remove remaining residual material.

All container storage, tank storage, and treatment area secondary containment systems, including base, sidewalls, berms, and associated structures, as well as the containment building containment barrier and associated structures, shall be thoroughly washed, scrubbed, and rinsed. High pressure washing, steam cleaning, wiping, and scraping may be employed as necessary to remove waste residues.

(3) The wash and rinse wastes generated from the decontamination procedures described in Condition 5(a)2 above shall be collected for shipment to an authorized onsite or offsite facility.

(4) Decontamination of tank units, all secondary containment systems, and the containment building containment barrier at the facility shall be verified by collecting a sample of the final rinse liquid from each unit or area being decontaminated. These samples and a rinse blank shall be analyzed for the Target Compound List +30. Results of the analyses shall be submitted to the Department within one hundred eighty (180) days from receipt of the final volume of waste. The Department will review the results and determine if the facility has been adequately decontaminated. Based on this determination, the permittee may be required to perform additional decontamination procedures.

(5) All closure activities shall be completed within one hundred eighty (180) days from receipt of the final volume of waste.

(6) The permittee shall submit certification by both the owner or operator and an independent

professional engineer, licensed in the State of New Jersey, that the facility has been closed in accordance with the closure plan specifications. The certification shall be submitted to the Department within two hundred forty (240) days from the date of implementation of the closure plan, in accordance with 40 C.F.R. ع264.115.

(7) The Department will review the certification documentation and will conduct a closure certification inspection. If the closure certification documents are complete and there is a satisfactory closure certification inspection, the closure certification will be accepted by the Department and the closure will be deemed complete.

(b) The permittee shall keep a copy of the closure plan and all revisions to the plan at the facility until closure is completed.

(c) The permittee shall amend the closure plan any time changes in operating plans or facility design affect the closure plan or whenever there is a change in the expected year of closure of the facility. The permittee must comply with the requirement cited at 40 C.F.R. ع 264.112(c)(3) for amendment of closure plan.

(d) The permittee shall notify the Department at least forty five (45) days prior to the date the permittee expects to begin closure, except in cases where the facility's permit is terminated or if the facility is otherwise ordered by judicial decrees or compliance order to close. The date when the owner or operator "expects to begin closure" shall be within thirty (30) days after the date on which the owner or operator expects to receive the final volume of wastes.

6. Construction/Installation Requirements

(a) The permittee will be authorized to upgrade the secondary containment units for all storage and treatment tanks and ancillary equipment associated with tank systems to meet the standards of 40 C.F.R. ع 264.193(e)(2). The permittee shall submit, at least sixty (60) days prior to initiation of the upgrade construction, final plans, specifications, and engineering design drawings, as applicable, to the Department at the address listed in Condition 11(a) of Section II of this permit, for review and approval. The permittee shall also apply for and obtain all applicable local authority approvals and building permits prior to initiation of construction.

(b) The permittee shall complete the upgrades to the secondary containment in conformance with 40 C.F.R. ع

264.193(a)(3).

(c) The permittee shall submit to the Department, at the address listed in Condition 11(a) of Section II of this permit, reports of progress toward completion of work at three (3) month intervals, until construction is completed. The first report shall be due thirty (30) days prior to commencement of construction.

(d) The Department will inspect the completed upgrades to the storage and treatment tank secondary containment systems for substantial conformance with the approved plans, specifications, and/or engineering design drawings referenced in Condition 6(a) above. If the facility is found not in substantial conformance with the approved design, a schedule shall be submitted within thirty (30) days of the date of the Department's inspection outlining how the facility will be brought into conformance. The schedule shall be submitted to the Department for approval.

7. Additional Part B Permit Application Requirements

The permittee shall submit the following additional Part B permit application information within 180 days of the date of permit issuance in order to update the application to conform to 40 C.F.R. Parts 260 through 270.

(a) A detailed description of any ancillary equipment which meets the exemption from secondary containment requirements of 40 C.F.R. ؋ 264.193(f).

(b) A revised Inspection Plan which includes a schedule and procedures for conducting leak tests or other integrity assessments of the tank system required by Condition 4(b)2 of Section III of this permit. Daily visual inspections of any ancillary equipment which meets the exemption outlined in Condition 7(a) above shall also be incorporated into the plan.

(c) A detailed description of procedures to be carried out in response to leaks or spills and when shutting down or repairing a leaking tank as required in Conditions 1(b)8 and 1(d)6 of Section III of this permit.

(d) A revised Closure Plan which includes a contingent closure and post-closure care plan, revised closure cost estimates, and a demonstration of financial assurance to meet the contingent post-closure care provisions of 40 C.F.R. ؋ 264.197(c).

End of Section III

DOCUMENT: DUPONT CW STORAGE PERMIT